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49. (New) The device of Claim 48, wherein the plurality of hinges taper substantially linearly.

50. (New) The device of Claim 48, wherein each of the plurality of hinges includes a first portion extending along about $1/3$ of the length of the hinge and a second portion extending about $2/3$ of the length of the hinge, wherein the second portion is tapered.

51. (New) The device of Claim 48, wherein during expansion the hinges experience deformation below their elastic limit.

52. (New) The device of Claim 48, wherein deformation during expansion is confined to the hinge.

53. (New) The device of Claim 48, wherein during expansion a structure adjacent the hinge experiences at least two degrees of freedom of motion.